Amendments to the Claims:

1. (Previously presented) A transceiver of a terminal for use in a TDD-based mobile communication system comprising:

a receiver for processing a reception signal in a reception mode;

a transmitter for processing a transmission signal in a transmission mode;

a switching mechanism operable in the transmission mode and the reception mode; and

a ground divider for dividing grounds for the receiver, the transmitter, and the switching mechanism, such that electrical components of the receiver are coupled to a receiver ground

exclusive to the receiver, electrical components of the transmitter are coupled to a transmitter ground exclusive to the transmitter, and electrical components of the switching mechanism are

coupled to a common ground

wherein the ground divider comprises:

a first ground separation element for isolating the receiver ground from the common ground; and

a second ground separation element for isolating the transmitter ground from the common ground.

2. (Original) The transceiver of claim 1, wherein the receiver comprises:

a low-noise amplifier for amplifying the reception signal provided by the switching mechanism in the reception mode; and

a reception filter for filtering the amplified reception signal and for providing the filtered reception signal to an intermediate frequency processor.

3. (Original) The transceiver of claim 1, wherein the transmitter comprises:

a transmission filter for filtering the transmission signal received from an intermediate frequency processor in the transmission mode; and

an amplifier for amplifying the filtered transmission signal.

4. (Original) The transceiver of claim 3, wherein the transmitter further comprises:

an isolator for isolating the transmitter from signal interference created by the switching mechanism.

5. (Original) The transceiver of claim 1, wherein the switching mechanism comprises:

an antenna;

a switch for selectively connecting the antenna to the receiver and the transmitter; and a duplexer positioned between the antenna and the switch.

6. (Original) The transceiver of claim 1, wherein the ground divider comprises: a first ground separation element for isolating a receiver ground for the receiver and a common ground for the switching mechanism from each other; and

a second ground separation element for isolating a transmitter ground for the transmitter and the common ground.

- 7. (Original) The transceiver of claim 5, wherein at least one of the first and second ground separation elements is an inductor.
- 8. (Original) The transceiver of claim 5, wherein at least one of the first and second ground separation elements is a ferrite bead.
- 9. (Original) The transceiver of claim 2, wherein the switching mechanism comprises:

an antenna;

a duplexer connected to the antenna, the duplexer selecting transmission and reception frequency via the antenna;

a circulator for sending the reception signal from the duplexer to the receiver and for sending the transmission signal from the transmitter to the antenna, and

a switch installed on a signal line between the circulator and the receiver, wherein the switch is turned on in the reception mode.

10. (Previously presented) A method of data communication in a TDD-based mobile communication system, the method comprising:

processing a reception signal received by a receiver of the mobile communication system in a reception mode;

processing a transmission signal transmitted by a transmitter of the mobile communication system in a transmission mode, where in a switching mechanism is operable in the transmission mode and the reception mode; and

dividing grounds for the receiver, the transmitter, and the switching mechanism, such that electrical components of the receiver are coupled to a receiver ground exclusive to the receiver, electrical components of the transmitter are coupled to a transmitter ground exclusive to the transmitter, and electrical components of the switching mechanism are coupled to a common ground,

wherein a first ground separation element is provided for isolating the receiver ground from the common ground; and

a second ground separation element is provided for isolating the transmitter ground from the common ground.

11. (Original) The method claim 10, wherein the step of processing a reception signal in the reception mode comprises:

amplifying the reception signal provided by the switching mechanism, using a lownoise amplifier;

filtering the amplified reception signal using a reception filter; and providing the filtered reception signal to an intermediate frequency processor.

12. (Previously presented) The method of claim 10, wherein the step of processing a transmission signal in a transmission mode comprises:

filtering the transmission signal received from an intermediate frequency processor using a transmission filter; and

amplifying the filtered transmission signal.

- 13. (Original) The method of claim 10, wherein the step of processing a transmission signal in a transmission mode further comprises isolating the transmitter from signal interference created by the switching mechanism.
 - 14. (Original) The method of claim 10, wherein the switching mechanism comprises: an antenna;

a switch for selectively connecting the antenna to the receiver and the transmitter; and a duplexer positioned between the antenna and the switch.

15-16 (Canceled)

- 17. (Previously presented) The method of claim 10, wherein the first ground separation element is an inductor.
- 18. (Previously presented) The method of claim 10, wherein the first ground separation element is a ferrite bead.
- 19. (Previously presented) The method of claim 10, wherein the second ground separation element is a ferrite bead.
 - 20. (Original) The method of claim 10, wherein the switching mechanism comprises: an antenna;
- a duplexer connected to the antenna, the duplexer selecting transmission and reception frequency via the antenna;

a circulator for sending the reception signal from the duplexer to the receiver and for sending the transmission signal from the transmitter to the antenna, and

a switch installed on a signal line between the circulator and the receiver, wherein the switch is turned on in the reception mode.

21. (Currently amended) A transceiver of a terminal for use in a TDD-based time division synchronous CDMA (TD-CDMA) mobile communication system comprising:

a receiver for processing a reception signal in a reception mode;

a transmitter for processing a transmission signal in a transmission mode;

a switching mechanism operable in the transmission mode and the reception mode; and

a ground divider for dividing grounds for the receiver, the transmitter, and the switching mechanism, such that electrical components of the receiver are coupled to a receiver ground

exclusive to the receiver, components of the transmitter are coupled to a transmitter ground exclusive to the transmitter, and components of the switching mechanism are coupled to a

common ground,

wherein the ground divider comprises:

a first ground separation element for isolating the receiver ground from the common ground; and

a second ground separation element for isolating the transmitter ground from the common ground.